Liproxstatin-1 hydrochloride

Cat. No.: HY-12726A

CAS No.: 2250025-95-5

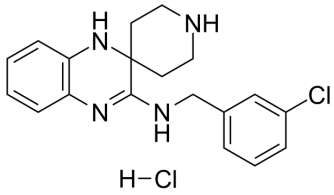
Molecular Formula: $C_{19}H_{22}Cl_2N_4$

Molecular Weight: 377.31

Target: Ferroptosis

Pathway: Apoptosis

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Liproxstatin-1 hydrochloride is a potent ferroptosis inhibitor and inhibits ferroptotic cell death (IC_{50}=22 nM)[1].
In Vitro	Liproxstatin-1 shows antiferroptotic activity with an IC_{50} of approximately 38 nM in mouse embryonic fibroblasts[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Liproxstatin-1 (10 mg/kg, i.p.) suppresses ferroptosis in human cells, $Gpx4^{-/-}$ kidney and in an ischaemia/reperfusion-induced tissue injury model[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Small. 2021 Aug;17(32):e2101368.
- Redox Biol. 2019 Jun;24:101211.
- Bioact Mater. 19 November 2021.
- Theranostics. 2021 Aug 4;11(18):8674-8691.
- Theranostics. 2021 Aug 4;11(18):8674-8691.

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REFERENCES

[1]. Friedmann Angeli JP, et al. Inactivation of the ferroptosis regulator Gpx4 triggers acute renal failure in mice. Nat Cell Biol. 2014 Dec;16(12):1180-91.

[2]. Zilka O, et al. On the Mechanism of Cytoprotection by Ferrostatin-1 and Liproxstatin-1 and the Role of Lipid Peroxidation in Ferroptotic Cell Death. ACS Cent Sci. 2017 Mar 22;3(3):232-243

Caution: Product has not been fully validated for medical applications. For research use only.

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